

REVIEWED FOR
DESIGN CRITERIA
ONLY

WESTERN TRUSS JOB # 2001567	
JOB NAME : YAVAPAI COUNTY 3 BDRM	
JOB SITE ADDRESS : YAVAPAI COUNTY	
DATE : 9-25-20	1X



MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 2001567
YAVAPAI COUNTY 3 BDRM

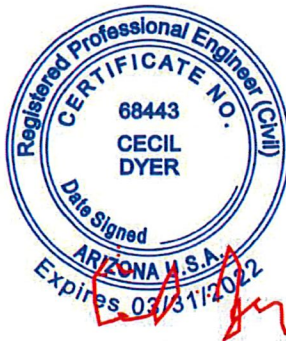
The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Western Truss.

Pages or sheets covered by this seal: R63885816 thru R63885842

My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



October 1, 2020

Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

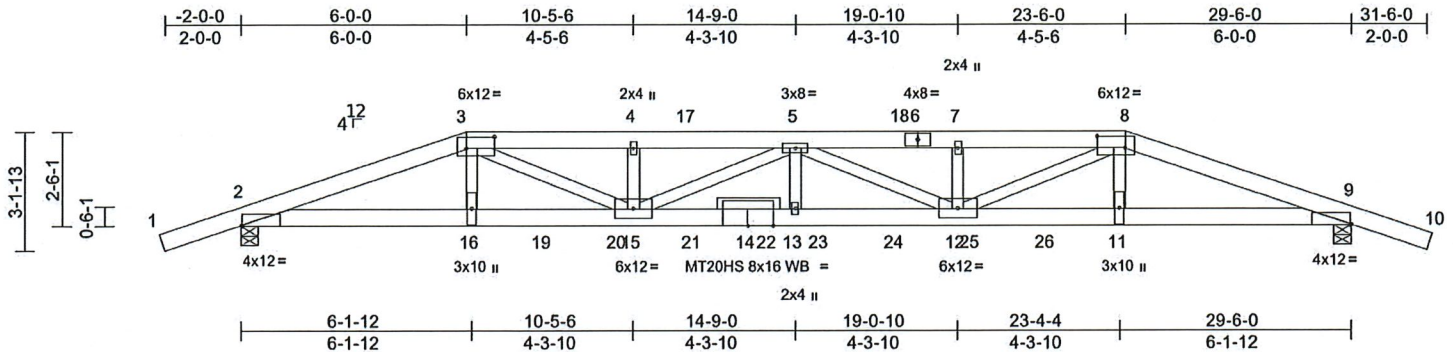
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DESIGN CRITERIA
ONLY

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885816
2001567	A01	Hip Girder	1	2	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:35
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Page: 1



Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885816
2001567	A01	Hip Girder	1	2	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:35
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Page: 2

Vert: 16=-988 (B), 11=-988 (B), 19=-429 (B),
20=-429 (B), 21=-429 (B), 22=-429 (B), 23=-429 (B),
24=-429 (B), 25=-429 (B), 26=-429 (B)

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DESIGN CRITERIA
ONLY



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



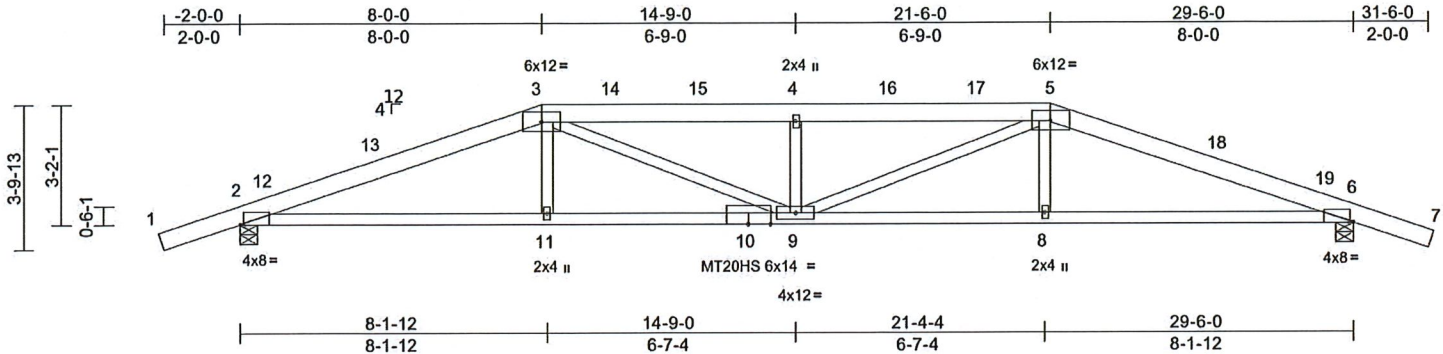
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885817
2001567	A02	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

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Page: 1



Scale = 1:58.4

Plate Offsets (X, Y): [2:0-1-2,Edge], [6:0-1-2,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.41	9	>857	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.62	8-9	>566	180	MT20HS	148/108
TCDL	15.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.19	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
Weight: 119 lb											FT = 20%	

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 9-3,9-5:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS

(size) 2=0-5-8, 6=0-5-8
Max Horiz 2=-63 (LC 15)
Max Uplift 2=-372 (LC 10), 6=-372 (LC 11)
Max Grav 2=2265 (LC 35), 6=2265 (LC 35)

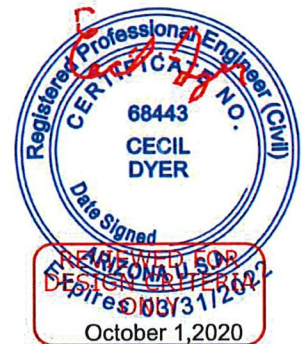
FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/89, 2-12=-4581/608, 12-13=-4553/622, 3-13=-4487/639, 3-14=-5827/801, 14-15=-5827/801, 4-15=-5826/801, 4-16=-5826/801, 16-17=-5827/801, 5-17=-5827/801, 5-18=-4487/639, 18-19=-4553/622, 6-19=-4581/608, 6-7=0/89
BOT CHORD 2-11=-489/4223, 10-11=-485/4231, 9-10=-485/4231, 8-9=-498/4231, 6-8=-503/4223
WEBS 3-11=0/306, 3-9=-233/1726, 4-9=-1200/226, 5-9=-234/1726, 5-8=0/306

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 21-6-0, Exterior(2R) 21-6-0 to 25-8-15, Interior (1) 25-8-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 2 and 372 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



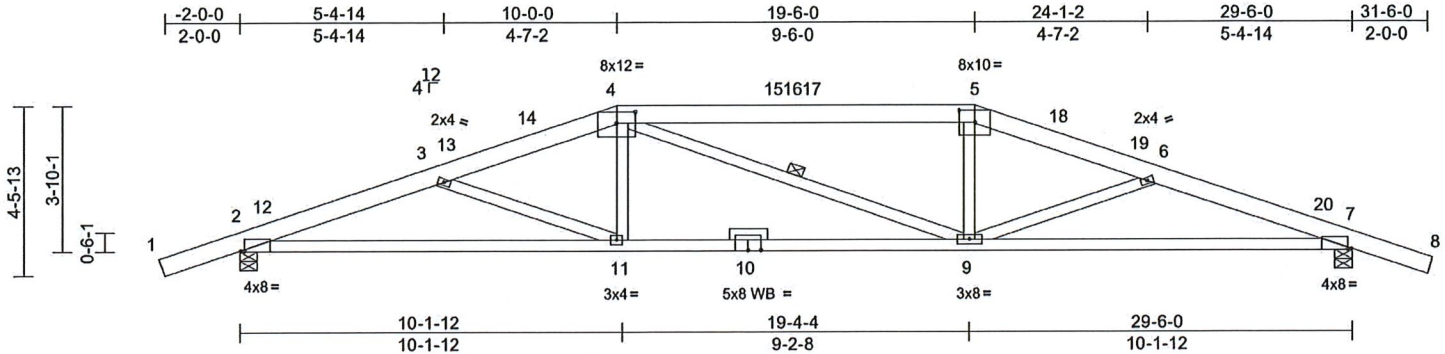
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885818
2001567	A03	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:38
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Page: 1



Scale = 1:58.5

Plate Offsets (X, Y): [2:0-1-6,Edge], [4:0-6-0,0-3-8], [5:0-5-0,0-3-13], [7:0-1-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.27	9-11	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.49	9-11	>707	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.18	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 123 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E *Except* 4-5:2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 WW Stud/Std

OTHERS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-1-10 oc bracing.

WEBS 1 Row at midpt 4-9

REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=-75 (LC 15)

Max Uplift 2=-363 (LC 10), 7=-363 (LC 11)

Max Grav 2=2477 (LC 35), 7=2477 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/89, 2-12=-4650/707, 3-12=-4496/723,

3-13=-4140/607, 13-14=-4106/612,

4-14=-3988/623, 4-15=-3911/629,

15-16=-3911/629, 16-17=-3911/629,

5-17=-3911/629, 5-18=-3996/624,

18-19=-4116/612, 6-19=-4148/608,

6-20=-4494/723, 7-20=-4648/706, 7-8=0/89

BOT CHORD 2-11=-587/4213, 10-11=-439/3907,

9-10=-439/3907, 7-9=-602/4211

WEBS 4-11=0/468, 4-9=-393/407, 5-9=0/464,

3-11=-815/171, 6-9=-804/173

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 19-6-0, Exterior(2R) 19-6-0 to 23-8-15, Interior (1) 23-8-15 to 31-6-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2 and 363 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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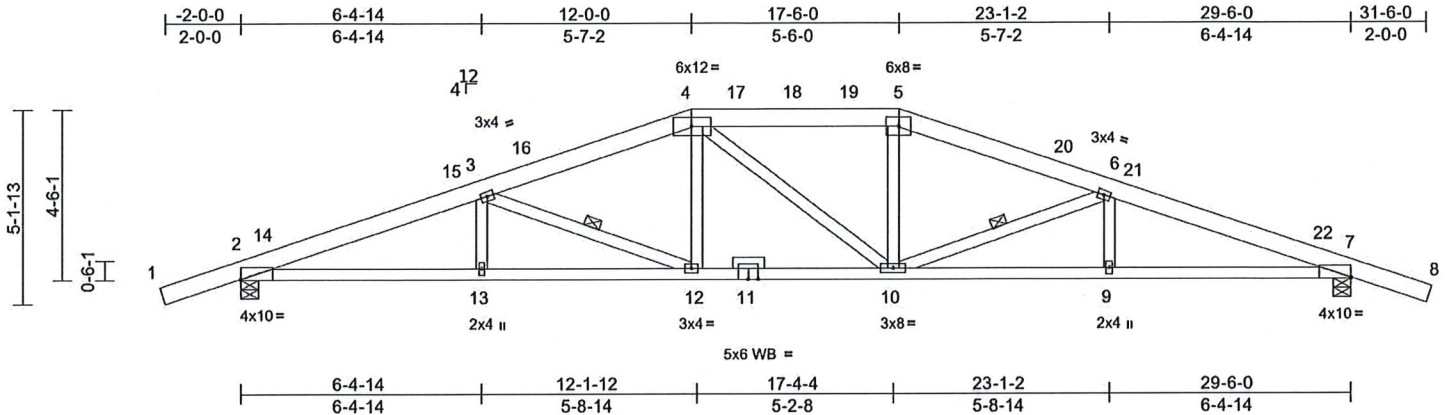
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885819
2001567	A04	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

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Page: 1



Scale = 1:58.6

Plate Offsets (X, Y): [2:Edge,0-0-4], [7:Edge,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/dell	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.32	12-13	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.50	12-13	>702	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.20	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 126 lb FT = 20%											

LUMBER	
TOP CHORD	2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 WW Stud/Std
OTHERS	2x4 WW Stud/Std
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-5-12 oc bracing.
WEBS	1 Row at midpt 3-12, 6-10
REACTIONS	
(size)	2=0-5-8, 7=0-5-8
Max Horiz	2=-88 (LC 19)
Max Uplift	2=-351 (LC 10), 7=-351 (LC 11)
Max Grav	2=2689 (LC 35), 7=2689 (LC 35)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/89, 2-14=-5257/671, 14-15=-5082/692, 3-15=-4919/694, 3-16=-3874/586, 4-16=-3725/603, 4-17=-3560/607, 17-18=-3560/607, 18-19=-3560/607, 5-19=-3560/607, 5-20=-3731/603, 6-20=-3879/586, 6-21=-4916/694, 21-22=-5080/692, 7-22=-5255/671, 7-8=0/89
BOT CHORD	2-13=-559/4775, 12-13=-559/4775, 11-12=-390/3554, 10-11=-390/3554, 9-10=-573/4772, 7-9=-573/4772
WEBS	3-13=0/237, 3-12=-1334/195, 4-12=-8/606, 4-10=-344/354, 5-10=-4/604, 6-10=-1325/198, 6-9=0/236

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 12-0-0, Exterior(2R) 12-0-0 to 16-2-15, Interior (1) 16-2-15 to 17-6-0, Exterior(2R) 17-6-0 to 21-8-15, Interior (1) 21-8-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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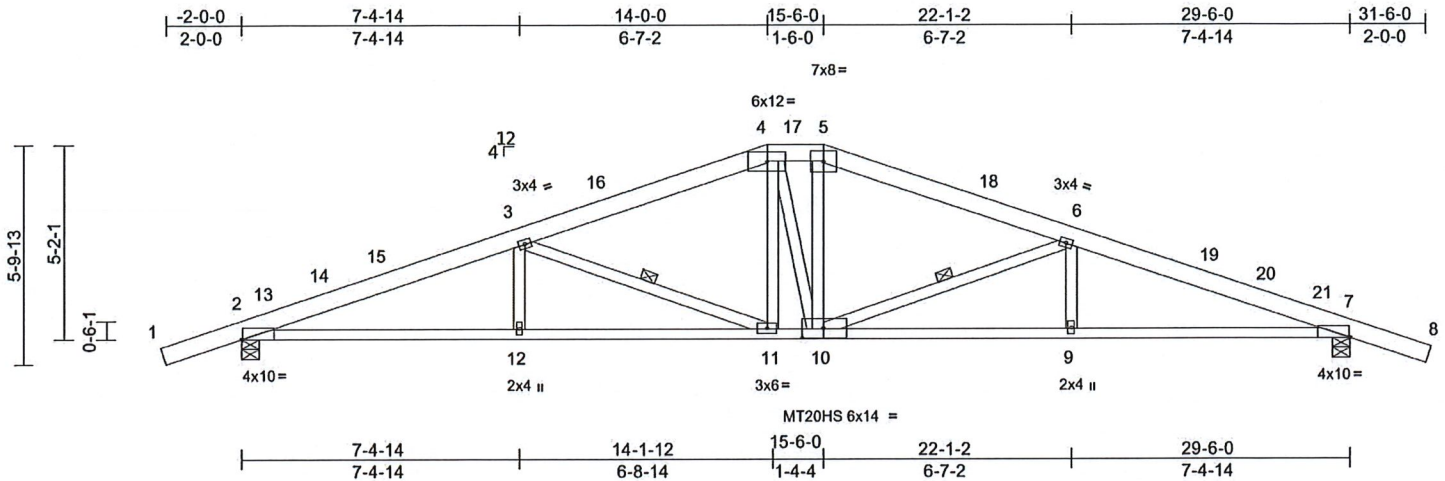
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885820
2001567	A05	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:39
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Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [2:0-0-4,Edge], [7:0-0-4,Edge], [10:0-6-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.40	11-12	>869	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.60	11-12	>585	180	MT20HS	127/93
TCDL	15.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.23	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 128 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

WEBS 1 Row at midpt 3-11, 6-10

REACTIONS (size) 2=0-5-8, 7=0-5-8
Max Horiz 2=-100 (LC 15)
Max Uplift 2=-338 (LC 10), 7=-338 (LC 11)
Max Grav 2=2901 (LC 35), 7=2901 (LC 35)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/89, 2-13=-5805/617, 13-14=-5767/626,
14-15=-5615/631, 3-15=-5605/646,
3-16=-4059/507, 4-16=-3880/523,
4-17=-3714/538, 5-17=-3714/538,
5-18=-3916/525, 6-18=-4093/509,
6-19=-5600/649, 19-20=-5610/634,
20-21=-5762/629, 7-21=-5799/620, 7-8=0/89

BOT CHORD 2-12=-508/5283, 11-12=-508/5283,
10-11=-298/3701, 9-10=-525/5278,
7-9=-525/5278

WEBS 3-12=0/288, 3-11=-1717/252, 4-11=-42/686,
4-10=-335/393, 5-10=-53/677,
6-10=-1680/253, 6-9=0/282

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 14-0-0, Exterior(2E) 14-0-0
to 15-6-0, Exterior(2R) 15-6-0 to 19-8-15, Interior (1)
19-8-15 to 31-6-14 zone; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.33 plate
grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 338 lb uplift at
joint 2 and 338 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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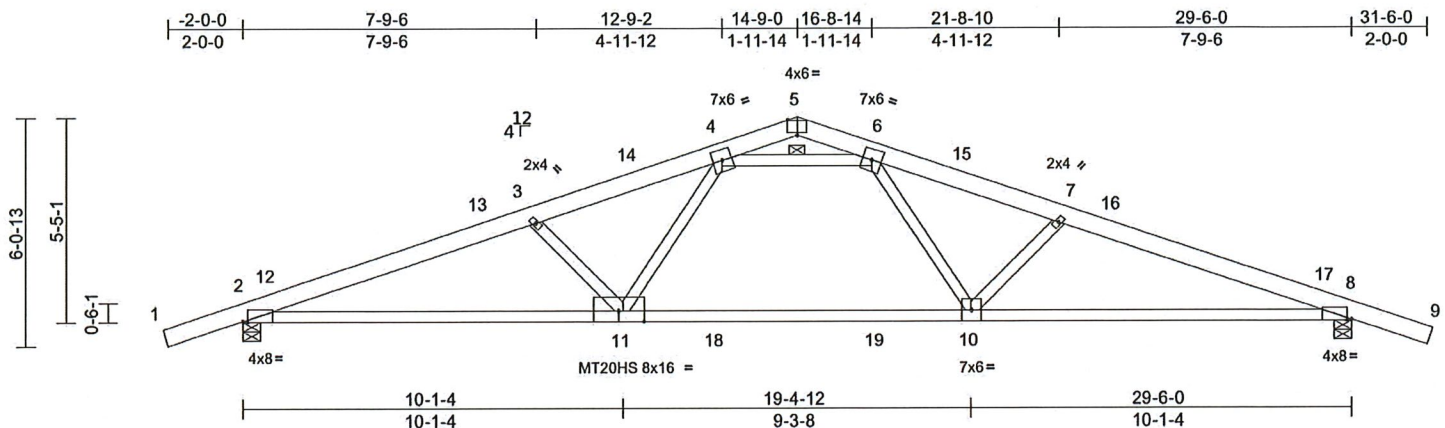
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885821
2001567	A06	Common	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:40
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Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [2:0-1-6,Edge], [5:0-3-0,Edge], [8:0-1-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.56	10-11	>625	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.79	10-11	>440	180	MT20HS	127/93
TCDL	15.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.15	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
Weight: 117 lb											FT = 20%	

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-1 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 4-6

REACTIONS (size) 2=0-5-8, 8=0-5-8

Max Horiz 2=-105 (LC 15)

Max Uplift 2=-215 (LC 10), 8=-215 (LC 11)

Max Grav 2=2284 (LC 21), 8=2284 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/61, 2-12=-4824/264, 12-13=-4823/280,

3-13=-4640/294, 3-14=-4301/199,

4-14=-4204/215, 4-5=-875/69, 5-6=-875/69,

6-15=-4204/215, 7-15=-4301/199,

7-16=-4640/294, 16-17=-4823/280,

8-17=-4824/264, 8-9=0/61

BOT CHORD 2-11=-172/4468, 11-18=0/3457,

18-19=0/3457, 10-19=0/3457,

8-10=-187/4468

WEBS 7-10=-1032/283, 3-11=-1032/282,

4-11=-102/1210, 4-6=-2594/165,

6-10=-103/1210

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-11-15, Interior (1) 18-11-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 2 and 215 lb uplift at joint 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down at 12-9-0, and 118 lb down at 16-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-110, 5-9=-110, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)

- 2) Dead + 0.75 Snow (balanced) + 0.75 Uninh. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-90, 5-9=-90, 2-18=-35, 18-19=-80,

8-19=-35

Concentrated Loads (lb)

Vert: 4=-118 (F), 6=-118 (F)



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885821
2001567	A06	Common	6	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:40
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Page: 2

- 3) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-13=-90, 5-13=-122, 5-9=-48, 2-18=-35, 18-19=-80, 8-19=-35
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 4) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-48, 5-16=-122, 9-16=-90, 2-18=-35, 18-19=-80, 8-19=-35
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-30, 5-9=-30, 2-8=-40
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=69, 2-12=40, 5-12=29, 5-15=39, 8-15=29, 8-9=23, 2-8=-12
Horz: 1-2=-81, 2-12=-52, 5-12=-41, 5-15=51, 8-15=41, 8-9=35
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=23, 2-14=29, 5-14=39, 5-17=29, 8-17=40, 8-9=69, 2-8=-12
Horz: 1-2=-35, 2-14=-41, 5-14=-51, 5-17=41, 8-17=52, 8-9=81
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-20, 2-5=-47, 5-8=-47, 8-9=-40, 2-8=-20
Horz: 1-2=-10, 2-5=17, 5-8=-17, 8-9=-10
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-40, 2-5=-47, 5-8=-47, 8-9=-20, 2-8=-20
Horz: 1-2=10, 2-5=17, 5-8=-17, 8-9=10
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=46, 2-5=31, 5-8=18, 8-9=11, 2-8=-12
Horz: 1-2=-58, 2-5=-43, 5-8=30, 8-9=23
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=11, 2-5=18, 5-8=31, 8-9=46, 2-8=-12
Horz: 1-2=-23, 2-5=-30, 5-8=43, 8-9=58
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=7, 2-5=1, 5-8=-13, 8-9=-7, 2-8=-20
Horz: 1-2=-37, 2-5=-31, 5-8=17, 8-9=23
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-7, 2-5=-13, 5-8=1, 8-9=7, 2-8=-20
Horz: 1-2=-23, 2-5=-17, 5-8=31, 8-9=37
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=25, 2-5=31, 5-8=13, 8-9=6, 2-8=-12
Horz: 1-2=-37, 2-5=-43, 5-8=25, 8-9=18
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=6, 2-5=13, 5-8=31, 8-9=25, 2-8=-12
Horz: 1-2=-18, 2-5=-25, 5-8=43, 8-9=37
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=12, 2-5=18, 5-8=7, 8-9=1, 2-8=-12
Horz: 1-2=-24, 2-5=-30, 5-8=19, 8-9=13
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=1, 2-5=7, 5-8=18, 8-9=12, 2-8=-12
Horz: 1-2=-13, 2-5=-19, 5-8=30, 8-9=24
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=7, 2-5=1, 5-8=-18, 8-9=-12, 2-8=-20
Horz: 1-2=-37, 2-5=-31, 5-8=12, 8-9=18
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-12, 2-5=-18, 5-8=1, 8-9=7, 2-8=-20
Horz: 1-2=-18, 2-5=-12, 5-8=31, 8-9=37
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-110, 2-5=-30, 5-8=-30, 8-9=-110, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-13=-110, 5-13=-153, 5-9=-54, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-54, 5-16=-153, 9-16=-110, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 23) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-30, 5-9=-30, 2-18=-40, 18-19=-100, 8-19=-40
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 24) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-62, 2-5=-67, 5-8=-77, 8-9=-73, 2-18=-35, 18-19=-80, 8-19=-35
Horz: 1-2=-28, 2-5=-23, 5-8=13, 8-9=17
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-77, 2-5=-77, 5-8=-67, 8-9=-62, 2-18=-35, 18-19=-80, 8-19=-35
Horz: 1-2=-17, 2-5=-13, 5-8=23, 8-9=28
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-62, 2-5=-67, 5-8=-81, 8-9=-76, 2-18=-35, 18-19=-80, 8-19=-35
Horz: 1-2=-28, 2-5=-23, 5-8=9, 8-9=14
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=-76, 2-5=-81, 5-8=-67, 8-9=-62, 2-18=-35, 18-19=-80, 8-19=-35
Horz: 1-2=-14, 2-5=-9, 5-8=23, 8-9=28
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 28) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-2=4, 2-5=-28, 5-9=-28, 2-8=-12
Horz: 1-2=-16, 2-5=16, 5-9=-16
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)
- 29) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (lb/ft)
Vert: 1-5=4, 5-9=4, 2-8=-12
Horz: 1-5=-16, 5-9=16
Concentrated Loads (lb)
Vert: 4=-118 (F), 6=-118 (F)

REVIEWED FOR
DESIGN CRITERIA
ONLY

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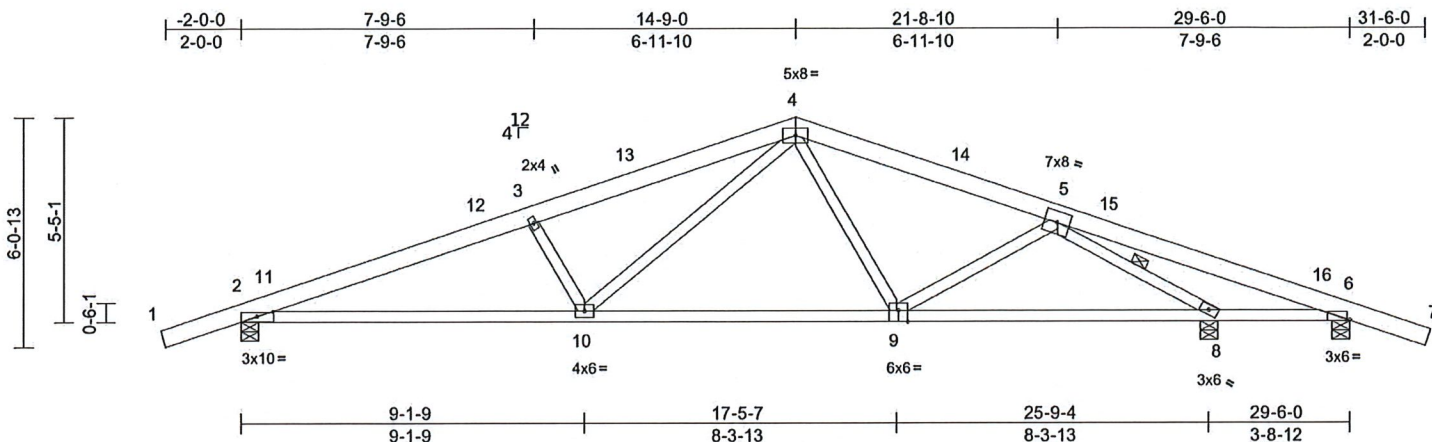
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885822
2001567	A07	Common	2	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:40
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Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [6:0-0-14,Edge], [9:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.18	9-10	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.33	9-10	>946	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.10	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 123 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std "Except" 10-4:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-8.

WEBS 1 Row at midpt 5-8

REACTIONS

(size) 2=0-5-8, 6=0-5-8, 8=0-5-8
Max Horiz 2=-105 (LC 19)
Max Uplift 2=-322 (LC 10), 6=-229 (LC 11), 8=-116 (LC 11)
Max Grav 2=2000 (LC 21), 6=570 (LC 22), 8=1810 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/61, 2-11=-3967/557, 11-12=-3939/572, 3-12=-3713/588, 3-13=-3511/557, 4-13=-3324/573, 4-14=-2365/437, 5-14=-2497/421, 5-15=0/338, 15-16=-78/274, 6-16=-104/201, 6-7=0/61

BOT CHORD 2-10=-450/3618, 9-10=-209/2123, 8-9=-373/2470, 6-8=-257/74

WEBS 3-10=-964/261, 4-10=-189/1531, 4-9=-35/429, 5-9=-414/275, 5-8=-2958/495

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-11-15, Interior (1) 18-11-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 6, 322 lb uplift at joint 2 and 116 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



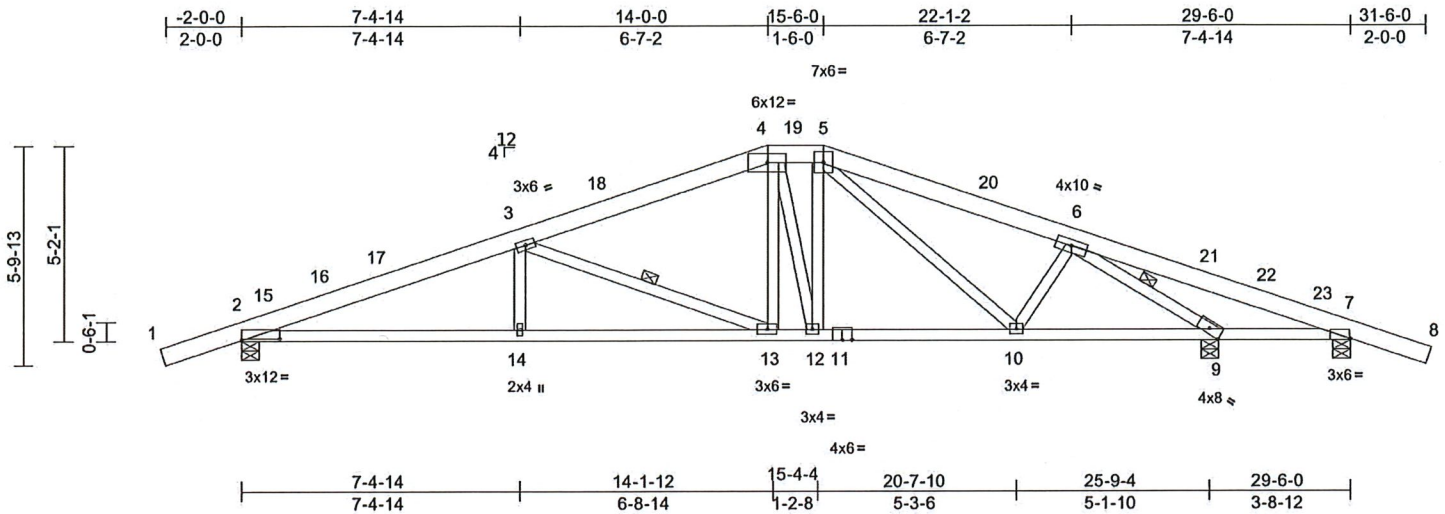
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885823
2001567	A08	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:41
ID:ic3chiPignlZ3oYu?OdeuryYRUl-VQM71Dxgl7yGbUjWpUOS8NsxirdTUFNY478IOyYR5C

Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [2:1-0-0,0-0-6], [7:0-0-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.53	-0.28	13-14	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.85	-0.41	13-14	>750	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.79	0.14	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0									Weight: 134 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 9-6:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 7-9.
WEBS 1 Row at midpt 3-13, 6-9

REACTIONS

(size) 2=0-5-8, 7=0-5-8, 9=0-5-8
Max Horiz 2=100 (LC 18)
Max Uplift 2=-321 (LC 10), 7=-180 (LC 11), 9=-178 (LC 11)
Max Grav 2=2594 (LC 35), 7=470 (LC 35), 9=2738 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/89, 2-15=-4916/541, 15-16=-4878/550, 16-17=-4728/555, 3-17=-4716/570, 3-18=-3128/424, 4-18=-2947/440, 4-19=-2728/444, 5-19=-2728/444, 5-20=-2901/458, 6-20=-3091/436, 6-21=-86/1330, 21-22=-98/1132, 22-23=-109/980, 7-23=-112/941, 7-8=0/89
BOT CHORD 2-14=-437/4448, 13-14=-437/4448, 12-13=-213/2817, 11-12=-213/2715, 10-11=-213/2715, 9-10=-302/2739, 7-9=-1065/183
WEBS 3-14=0/289, 3-13=-1770/255, 4-13=-30/708, 4-12=-564/108, 5-12=-67/622, 5-10=-317/305, 6-10=-156/340, 6-9=-4556/555

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCCL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 19-8-15, Interior (1) 19-8-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 7, 321 lb uplift at joint 2 and 178 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component



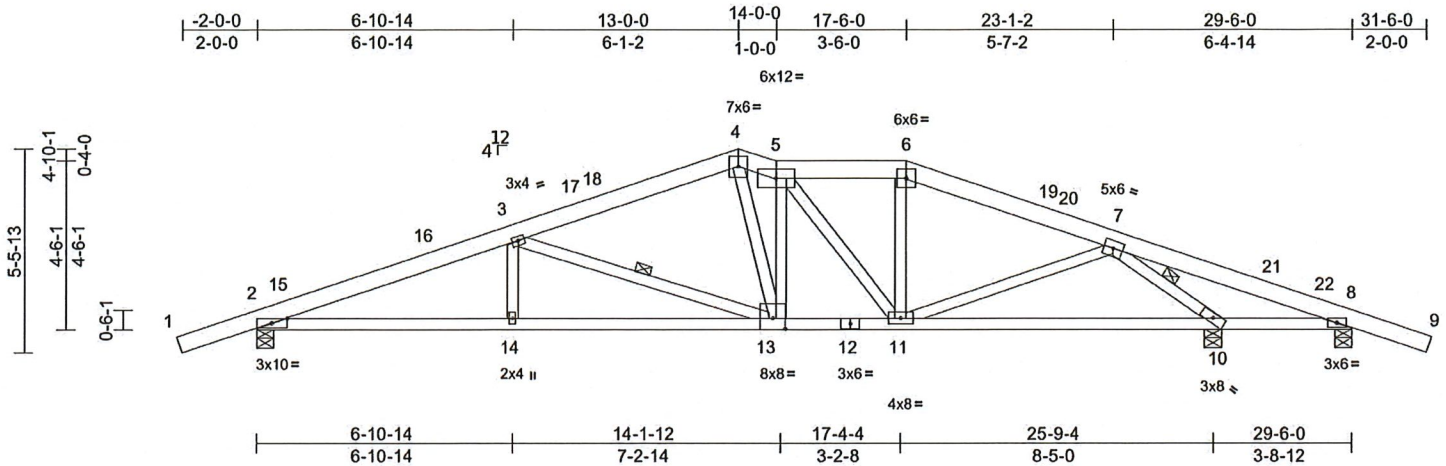
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885824
2001567	A09	Roof Special	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:41
ID: Aoc_U2KQK4RChy75Z58tS3yYRUK-VQM71DXgt7yGbUjWpUOS8NvaiftTSyNY478I0yYR5C

Page: 1



Scale = 1:59.4

Plate Offsets (X, Y): [2:0-5-2,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.19	13-14	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.33	13-14	>927	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.10	10	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 132 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-10.

WEBS 1 Row at midpt 3-13, 7-10

REACTIONS

(size) 2=0-5-8, 8=0-5-8, 10=0-5-8
Max Horiz 2=-94 (LC 15)
Max Uplift 2=-301 (LC 10), 8=-187 (LC 11),
10=-178 (LC 11)
Max Grav 2=1948 (LC 21), 8=569 (LC 37),
10=2171 (LC 37)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/61, 2-15=-3822/571, 15-16=-3696/581,
3-16=-3651/595, 3-17=-2498/470,
17-18=-2413/472, 4-18=-2394/486,
4-5=-2442/512, 5-6=-2249/456,
6-19=-2371/454, 19-20=-2430/440,
7-20=-2496/435, 7-21=-92/975,
21-22=-106/769, 8-22=-115/766, 8-9=0/89
BOT CHORD 2-14=-463/3475, 13-14=-463/3475,
12-13=-291/2428, 11-12=-291/2428,
10-11=-283/1823, 8-10=-810/187
WEBS 3-14=0/288, 3-13=-1482/225, 4-13=-102/924,
5-13=-613/130, 5-11=-603/92, 6-11=0/322,
7-11=0/796, 7-10=-3178/561

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2E) 13-0-0
to 14-0-0, Interior (1) 14-0-0 to 17-6-0, Exterior(2R)
17-6-0 to 21-8-15, Interior (1) 21-8-15 to 31-6-14
zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.33 plate grip
DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 301 lb uplift at joint 2,
178 lb uplift at joint 10 and 187 lb uplift at joint 8.
- 9) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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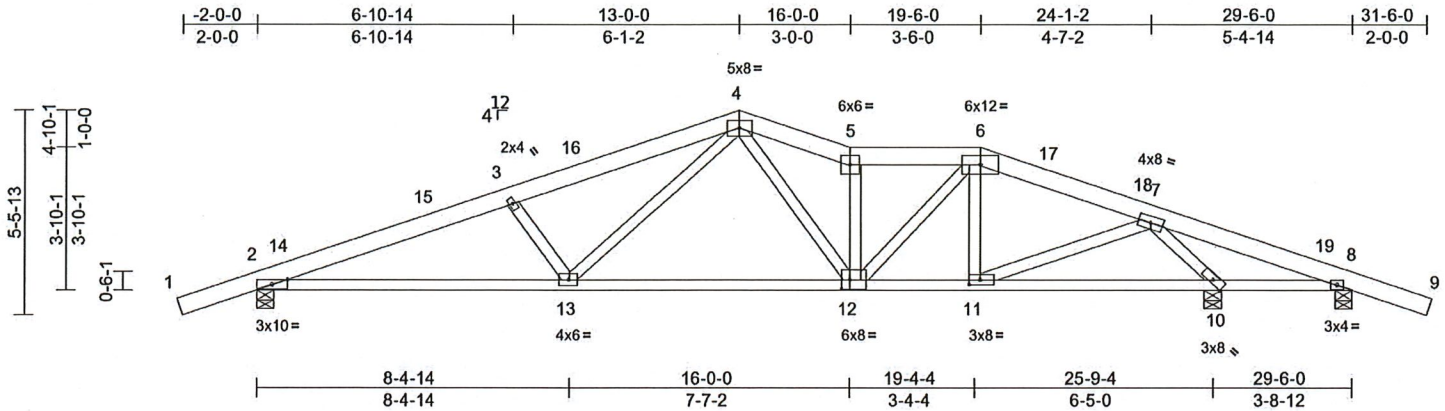
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885825
2001567	A10	Roof Special	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:42
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Page: 1



Scale = 1:59.4

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [11:0-3-8,0-1-8], [12:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.17	12-13	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.31	12-13	>981	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.08	10	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 130 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 13-4,7-11:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 8-10.

REACTIONS

(size) 2=0-5-8, 8=0-5-8, 10=0-5-8
Max Horiz 2=94 (LC 14)
Max Uplift 2=299 (LC 10), 8=204 (LC 38), 10=214 (LC 11)
Max Grav 2=1924 (LC 21), 8=368 (LC 37), 10=2383 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/61, 2-14=-3782/575, 14-15=-3666/575,
3-15=-3611/599, 3-16=-3316/548,
4-16=-3168/564, 4-5=-2812/559,
5-6=-2632/513, 6-17=-2221/420,
17-18=-2310/412, 7-18=-2322/402,
7-19=-173/1483, 8-19=-191/1305, 8-9=0/89

BOT CHORD

2-13=-467/3446, 12-13=-261/2218,
11-12=-227/2095, 10-11=-151/985,
8-10=-1302/250

WEBS

3-13=-854/228, 4-13=-126/1247,
4-12=-134/1022, 5-12=-1268/252,
6-12=-137/961, 6-11=-447/108,
7-11=-139/1400, 7-10=-3078/546

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-0, Interior (1) 16-0-0 to 19-6-0, Exterior(2R) 19-6-0 to 23-8-15, Interior (1) 23-8-15 to 31-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2, 204 lb uplift at joint 8 and 214 lb uplift at joint 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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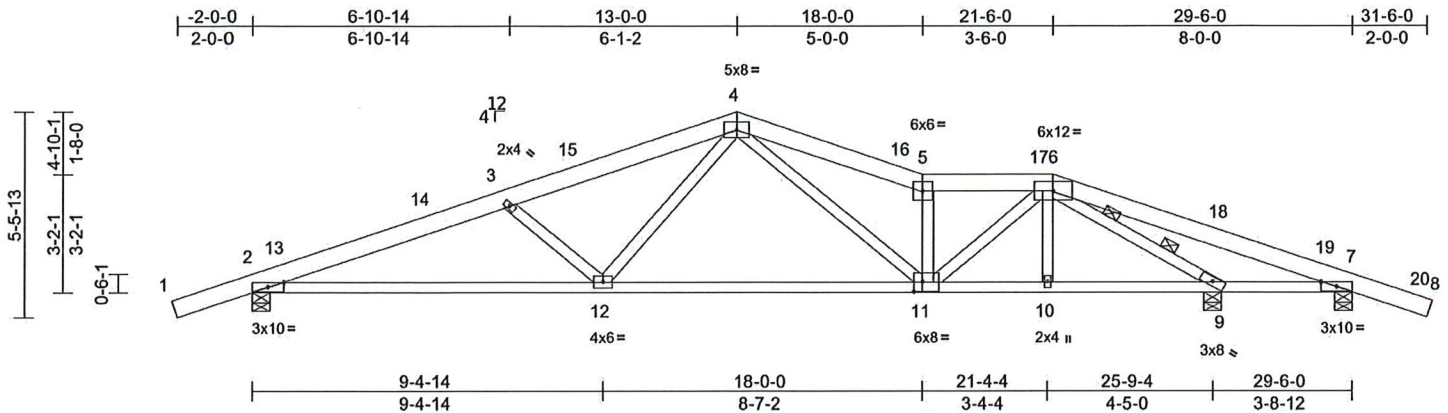
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885826
2001567	A11	Roof Special	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:43
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Page: 1



Scale = 1:59.2

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [7:0-5-2,0-1-8], [11:0-2-12,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.20	11-12	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.39	11-12	>784	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.11	9	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 127 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 11-4, 11-6:2x4
SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 7-9.
WEBS 2 Rows at 1/3 pts 6-9

REACTIONS

(size) 2=0-5-8, 7=0-5-8, 9=0-5-8
Max Horiz 2=-94 (LC 15)
Max Uplift 2=-305 (LC 10), 7=-209 (LC 11),
9=-153 (LC 11)
Max Grav 2=2042 (LC 38), 7=815 (LC 37),
9=1897 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-13=-4113/604, 13-14=-3998/605,
3-14=-3941/628, 3-15=-3373/518,
4-15=-3212/534, 4-16=-3565/662,
5-16=-3652/646, 5-17=-3383/589,
6-17=-3383/589, 6-18=-25/512,
18-19=-39/431, 7-19=-41/367, 7-20=0/89,
8-20=0/16
BOT CHORD 2-12=-494/3758, 11-12=-281/2403,
10-11=-316/2338, 9-10=-319/2339,
7-9=-420/120
WEBS 3-12=-952/249, 4-12=-66/1040,
4-11=-222/1514, 5-11=-1684/318,
6-11=-179/1379, 6-10=-25/72, 6-9=-3078/482

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2R) 13-0-0
to 17-2-15, Interior (1) 17-2-15 to 21-6-0, Exterior(2R)
21-6-0 to 25-8-15, Interior (1) 25-8-15 to 31-6-14
zone; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.33 plate grip
DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 305 lb uplift at
joint 2, 209 lb uplift at joint 7 and 153 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component



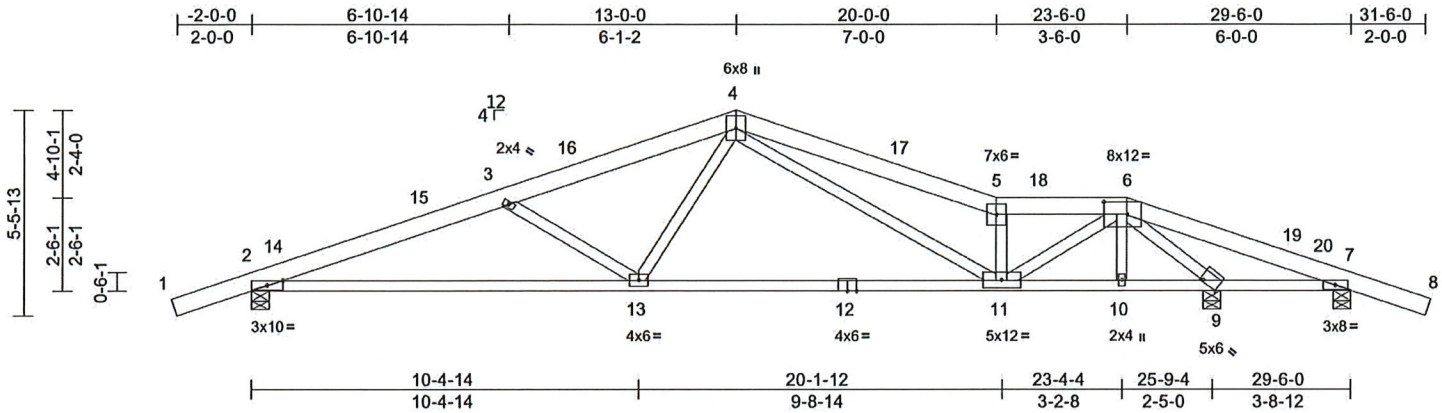
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885827
2001567	A12	Roof Special	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:43
ID: ?y_F16V50wBaPtbEvMFHkiYRUE-RoUuSuywPIC_qntvwJnsXZTAUVYAxNRg0NUFNHyYR5A

Page: 1



Scale = 1:59.2

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [6:0-7-8,0-4-0], [9:Edge,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.59	-0.17	11-13	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.40	11-13	>765		
TCDL	15.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	9	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 11-6,9-6;2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-4-15 oc bracing: 7-9.

REACTIONS (size) 2=0-5-8, 7=0-5-8, 9=0-5-8
Max Horiz 2=-94 (LC 15)
Max Uplift 2=-299 (LC 10), 7=-491 (LC 38), 9=-276 (LC 11)
Max Grav 2=1934 (LC 38), 7=263 (LC 43), 9=2800 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/61, 2-14=-3795/555, 14-15=-3684/555, 3-15=-3623/579, 3-16=-2855/427, 4-16=-2694/443, 4-17=-3028/560, 5-17=-3191/544, 5-18=-2756/450, 6-18=-2756/450, 6-19=-339/2551, 19-20=-349/2358, 7-20=-352/2353, 7-8=0/89
BOT CHORD 2-13=-446/3462, 12-13=-225/2143, 11-12=-225/2143, 10-11=-73/672, 9-10=-74/676, 7-9=-2304/419
WEBS 3-13=-1074/271, 4-13=-21/900, 4-11=-190/1050, 5-11=-1718/340, 6-11=-315/2467, 6-10=-69/17, 6-9=-3935/617

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior (1) 17-2-15 to 23-6-0, Exterior(2R) 23-6-0 to 27-8-15, Interior (1) 27-8-15 to 31-6-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2, 276 lb uplift at joint 9 and 491 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES on THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

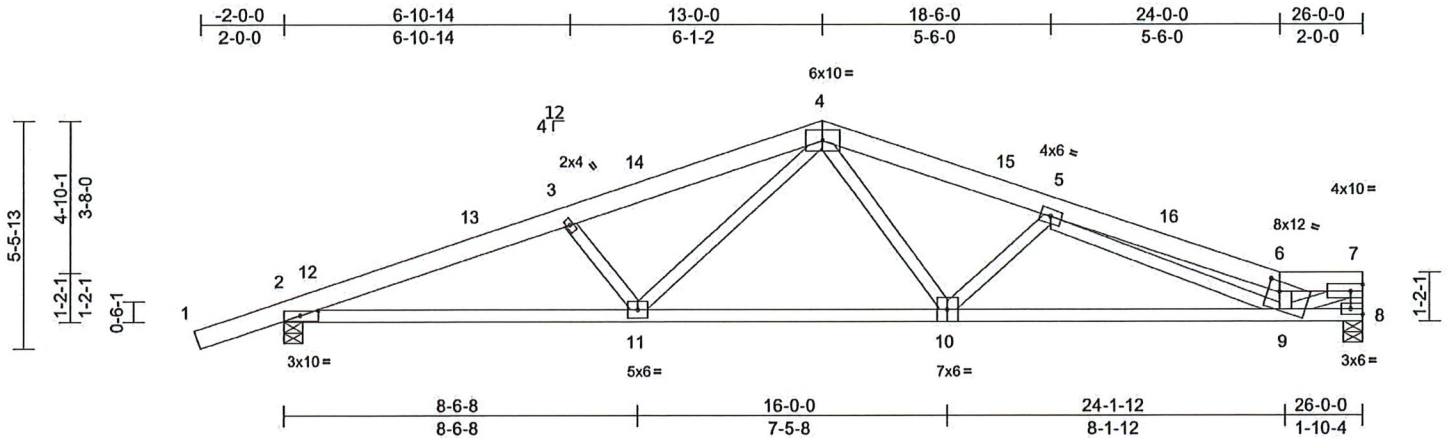


Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885829
2001567	A14	Roof Special	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:44
ID:QXION7XzJrZ9GKJpaUo_KyyYRUb-v72GfEzY92KrSxR5U1J54m?K_vuHgosqF1EpjyYR59

Page: 1



Scale = 1:53.1

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [6:0-3-4,0-2-12], [8:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.20	9-10	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.38	9-10	>805	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.11	8	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 108 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 9-7:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 8=0-5-8
Max Horiz 2=124 (LC 14)
Max Uplift 2=307 (LC 10), 8=197 (LC 11)
Max Grav 2=1980 (LC 21), 8=1773 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/61, 2-12=-3935/563, 12-13=-3819/563, 3-13=-3763/587, 3-14=-3396/526, 4-14=-3234/543, 4-15=-3154/511, 5-15=-3312/492, 5-16=-4033/535, 6-16=-4147/524, 6-7=-3570/416, 7-8=-1716/215
BOT CHORD 2-11=-537/3590, 10-11=-324/2400, 9-10=-507/3768, 8-9=-36/181
WEBS 3-11=-865/229, 4-11=-126/1192, 4-10=-95/1171, 5-10=-1111/240, 5-9=-91/229, 6-9=-1606/273, 7-9=-419/3739

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior (1) 17-2-15 to 25-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 8 and 307 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



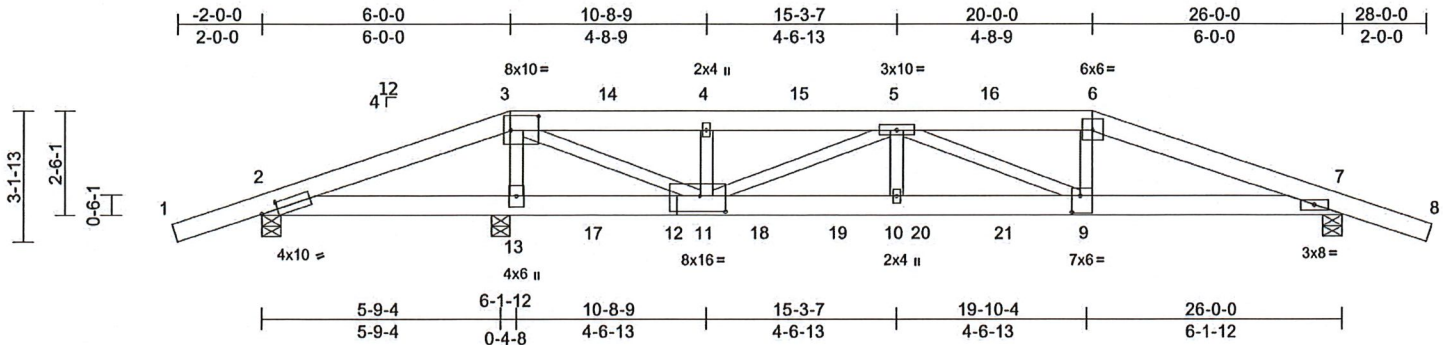
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885830
2001567	B01	Hip Girder	1	2	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:45
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Page: 1



Scale = 1:53

Plate Offsets (X, Y): [2:0-4-13,0-2-2], [3:0-8-0,0-4-0], [9:0-2-8,0-4-12], [12:0-7-4,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.18	9-10	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.25	9-10	>946	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
Weight: 249 lb FT = 20%												

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x6 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 11-3,11-5,9-5:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 7=0-5-8, 13=0-5-8
Max Horiz 2=51 (LC 6)
Max Uplift 2=-986 (LC 30), 7=-503 (LC 7), 13=-923 (LC 6)
Max Grav 2=576 (LC 45), 7=2889 (LC 31), 13=6600 (LC 30)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/101, 2-3=-486/3609, 3-14=-3652/592, 4-14=-3651/592, 4-15=-3651/592, 5-15=-3651/592, 5-16=-6323/954, 6-16=-6323/954, 6-7=-6635/970, 7-8=0/101
BOT CHORD 2-13=-3351/526, 13-17=-3705/579, 12-17=-3705/579, 11-12=-3705/579, 11-18=-964/7113, 18-19=-964/7113, 10-19=-964/7113, 10-20=-964/7113, 20-21=-964/7113, 9-21=-964/7113, 7-9=-815/6202
WEBS 3-13=-4963/761, 3-11=-1137/8015, 4-11=-706/156, 5-11=-3793/567, 5-10=-133/1161, 5-9=-866/222, 6-9=-189/1685

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-9 2x4 - 1 row at 0-2-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 986 lb uplift at joint 2, 923 lb uplift at joint 13 and 503 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 988 lb down and 167 lb up at 6-0-0, 429 lb down and 81 lb up at 8-0-12, 429 lb down and 81 lb up at 10-0-12, 429 lb down and 81 lb up at 12-0-12, 429 lb down and 81 lb up at 13-11-4, 429 lb down and 81 lb up at 15-11-4, and 429 lb down and 81 lb up at 17-11-4, and 988 lb down and 167 lb up at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-110, 3-6=-110, 6-8=-110, 2-7=-20
Concentrated Loads (lb)
Vert: 12=-429 (F), 13=-988 (F), 9=-988 (F), 17=-429 (F), 18=-429 (F), 19=-429 (F), 20=-429 (F), 21=-429 (F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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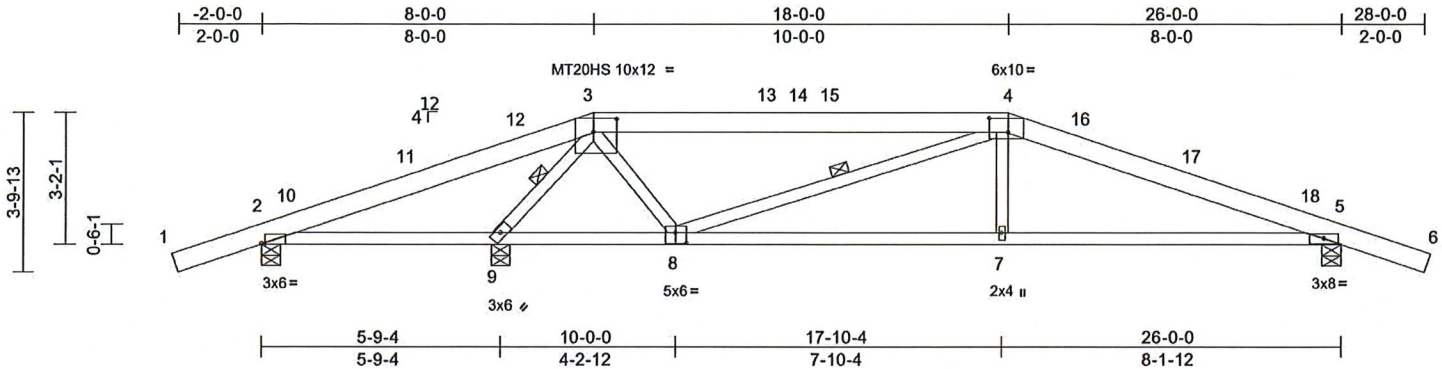
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885831
2001567	B02	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:46
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Page: 1



Scale = 1:53.1

Plate Offsets (X, Y): [2:0-0-14,Edge], [3:0-6-12,0-3-12], [4:0-5-8,0-4-0], [8:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.14	5-7	>999	240	MT20HS	127/93
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.24	5-7	>999	180	MT20	169/123
TCDL	15.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 103 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E *Except* 3-4:2x6 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 2-9.

WEBS 1 Row at midpt 3-9, 4-8

REACTIONS (size) 2=0-5-8, 5=0-5-8, 9=0-5-8

Max Horiz 2=63 (LC 15)

Max Uplift 2=177 (LC 10), 5=302 (LC 11), 9=203 (LC 10)

Max Grav 2=841 (LC 35), 5=1788 (LC 35), 9=1980 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/89, 2-10=-56/571, 10-11=-53/624, 11-12=-40/684, 3-12=-28/757, 3-13=-1323/262, 13-14=-1323/262, 14-15=-1323/262, 4-15=-1323/262, 4-16=-2613/424, 16-17=-2748/409, 17-18=-2855/407, 5-18=-2881/393, 5-6=0/89

BOT CHORD 2-9=-587/120, 8-9=-134/1018, 7-8=-299/2595, 5-7=-304/2586

WEBS 3-9=-2425/366, 3-8=0/704, 4-8=-1370/202, 4-7=0/336

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-2-15, Interior (1) 12-2-15 to 18-0-0, Exterior(2R) 18-0-0 to 22-2-15, Interior (1) 22-2-15 to 28-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 2, 203 lb uplift at joint 9 and 302 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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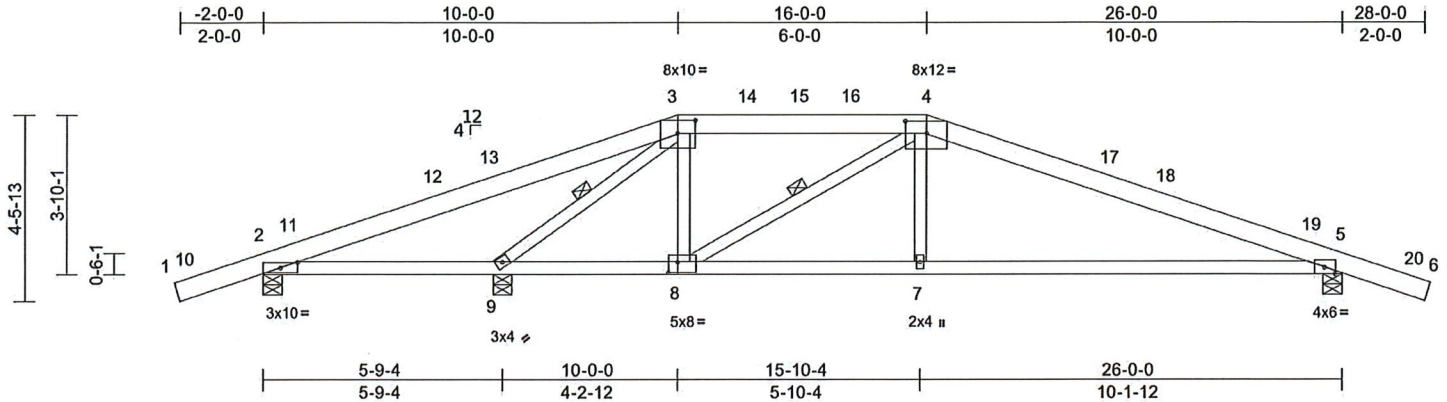
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885832
2001567	B03	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:46
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Page: 1



Scale = 1:53.2

Plate Offsets (X, Y): [2:0-5-2,0-1-8], [3:0-5-0,0-3-13], [4:0-6-0,0-3-8], [8:0-2-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.25	5-7	>954	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.50	5-7	>489	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 104 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SPF 2100F 1.8E *Except* 3-4:2x6 SPF 1650F 1.5E
BOT CHORD	2x4 SPF 1650F 1.5E
WEBS	2x4 WW Stud/Std
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-9.
WEBS	1 Row at midpt 3-9, 4-8
REACTIONS	
(size)	2=0-5-8, 5=0-5-8, 9=0-5-8
Max Horiz	2=-75 (LC 15)
Max Uplift	2=-219 (LC 10), 5=-306 (LC 11), 9=-135 (LC 10)
Max Grav	2=1065 (LC 35), 5=2008 (LC 35), 9=1622 (LC 35)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-10=0/19, 2-10=0/89, 2-11=-166/105, 11-12=-133/180, 12-13=0/193, 3-13=0/413, 3-14=-1628/394, 14-15=-1628/394, 15-16=-1628/394, 4-16=-1628/394, 4-17=-2458/423, 17-18=-2485/406, 18-19=-2638/401, 5-19=-2674/384, 5-20=0/89, 6-20=0/19
BOT CHORD	2-9=-182/81, 8-9=-203/1628, 7-8=-280/2352, 5-7=-284/2343
WEBS	3-9=-2190/347, 3-8=-2/559, 4-8=-1054/119, 4-7=0/362

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-2-15, Interior (1) 14-2-15 to 16-0-0, Exterior(2R) 16-0-0 to 20-2-15, Interior (1) 20-2-15 to 28-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 2, 135 lb uplift at joint 9 and 306 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



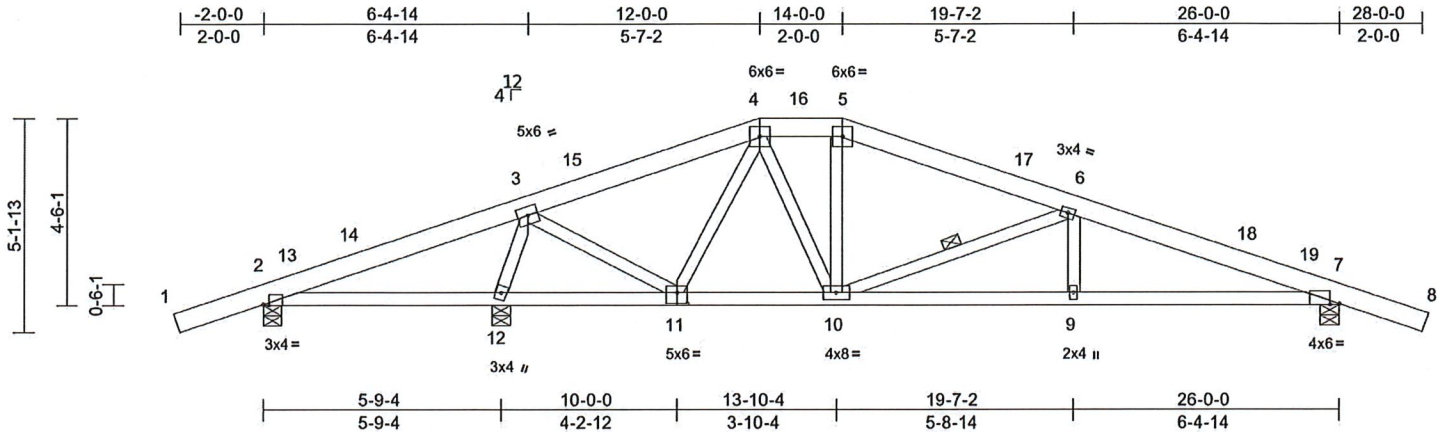
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885833
2001567	B04	Hip	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:47
ID:q6LW09Zscmj7o2OGdMhybyYRUy-rNA04w_phgaZhFbUcSLZ9B5kxjeF8ld6iJvzcyYR57

Page: 1



Scale = 1:53.2

Plate Offsets (X, Y): [2:0-1-10,Edge], [7:0-2-10,Edge], [11:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.14	9-10	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.21	9-10	>999	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.05	7	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
Weight: 113 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std *Except* 11-3:2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-10

REACTIONS

(size) 2=0-5-8, 7=0-5-8, 12=0-5-8
Max Horiz 2=-88 (LC 15)
Max Uplift 2=-156 (LC 10), 7=-284 (LC 11), 12=-200 (LC 10)
Max Grav 2=547 (LC 35), 7=2008 (LC 35), 12=2564 (LC 35)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/89, 2-13=-79/824, 13-14=-76/910, 3-14=-56/1129, 3-15=-1216/216, 4-15=-1047/235, 4-16=-1595/329, 5-16=-1595/329, 5-17=-1680/312, 6-17=-1833/293, 6-18=-3144/422, 18-19=-3195/405, 7-19=-3315/399, 7-8=0/89
BOT CHORD 2-12=-892/148, 11-12=-288/79, 10-11=-95/1317, 9-10=-318/2954, 7-9=-318/2954
WEBS 3-12=-2543/344, 3-11=-114/1350, 4-11=-744/114, 4-10=-80/755, 5-10=-100/137, 6-10=-1461/208, 6-9=0/244

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; Hip Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 12-0-0, Exterior(2E) 12-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-15, Interior (1) 18-2-15 to 28-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2, 200 lb uplift at joint 12 and 284 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



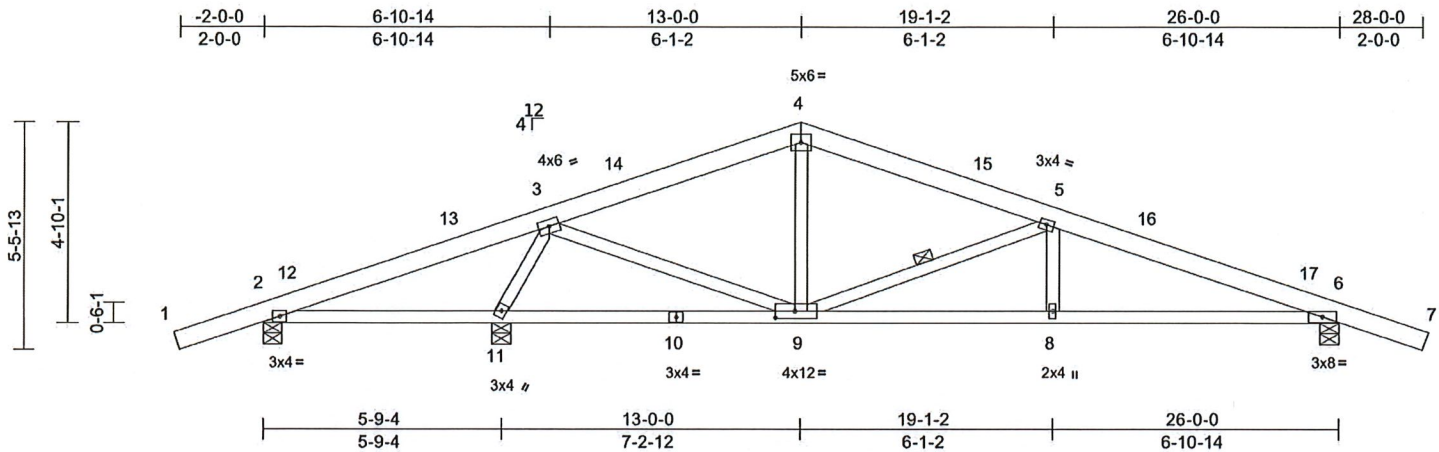
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885834
2001567	B05	Common	3	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:47
ID:q6LW09Zscmj7o2OGdMhybyYRUY-JakOHG7RSziQJPAg99sohPdvV6z119YGx?STW2yYR56

Page: 1



Scale = 1:53.3

Plate Offsets (X, Y): [9:0-5-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.13	8-9	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.19	6-8	>999	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.05	6	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-SH							
BCDL	10.0										
										Weight: 107 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-11.

WEBS 1 Row at midpt 5-9

REACTIONS

(size) 2=0-5-8, 6=0-5-8, 11=0-5-8
Max Horiz 2=94 (LC 14)
Max Uplift 2=-159 (LC 10), 6=-281 (LC 11),
11=-187 (LC 10)
Max Grav 2=462 (LC 21), 6=1631 (LC 22),
11=1918 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-90/588, 2-12=-90/588, 12-13=-82/632,
3-13=-66/740, 3-14=-1395/262,
4-14=-1273/283, 4-15=-1308/274,
5-15=-1468/258, 5-16=-2749/401,
16-17=-2799/387, 6-17=-2920/376, 6-7=0/61
BOT CHORD 2-11=-594/139, 10-11=-79/440,
9-10=-79/440, 8-9=-295/2632, 6-8=-295/2632
WEBS 3-11=-1978/361, 3-9=-69/1195, 4-9=0/281,
5-9=-1496/242, 5-8=0/249

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; Common Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 13-0-0, Exterior(2R) 13-0-0
to 17-2-15, Interior (1) 17-2-15 to 28-0-14 zone;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 159 lb uplift at
joint 2, 187 lb uplift at joint 11 and 281 lb uplift at joint 6.
- 8) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) 'Standard

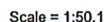


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

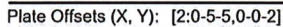
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Roseville, CA 95661

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Roseville, CA 95661

Page: 1

Vert: 8=124 (F=62, B=62), 9=-59 (F=-30, B=-30),
11=-18 (F=-9, B=-9)

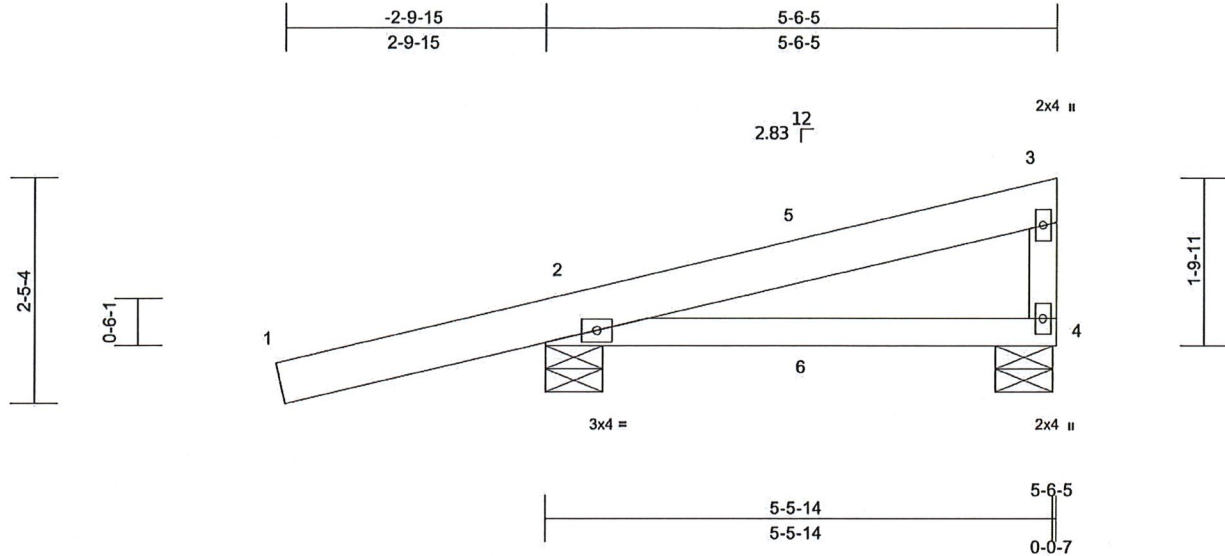


Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885837
2001567	J02	Roof Special Girder	1	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:48
ID:TP33XGjNnSS0Zeziz8aVR7yYRUM-nmHnVc03DHqHxZlsjsN1EaA2EW0tcrFP9fC02UyYR55

Page: 1



Scale = 1:23.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.04	2-4	>999	240	MT20	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	2-4	>822	180		
TCDL	15.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0											
											Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-7-6, 4=0-7-8
Max Horiz 2=92 (LC 6)
Max Uplift 2=-212 (LC 6), 4=-44 (LC 16)
Max Grav 2=968 (LC 17), 4=213 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/80, 2-5=-120/41, 3-5=-119/25,
3-4=-163/95
BOT CHORD 2-6=0/0, 4-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 4 and 212 lb uplift at joint 2.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 302 lb up at 2-9-8, and 97 lb down and 302 lb up at 2-9-8 on top chord, and 0 lb down at 2-9-8, and 0 lb down at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-110, 2-4=-20
Concentrated Loads (lb)
Vert: 5=124 (F=62, B=62)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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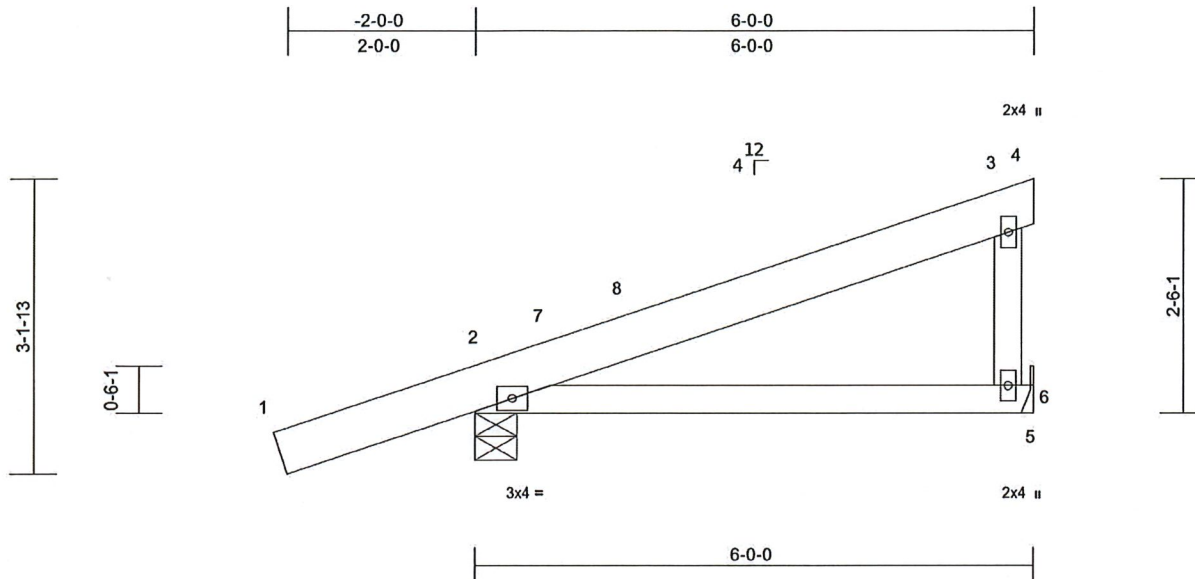
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885838
2001567	J03	Jack-Closed	18	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:49
ID:lvvDVaUN43alxdbpKtwUoyYRUX-nmHnVc03DHqHxZlsjsN1EcA6OWObrFP9fC02UyYR55

Page: 1



Scale = 1:23.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.05	2-6	>999	240	169/123
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.10	2-6	>648	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
Weight: 24 lb FT = 20%											

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 WW Stud/Std

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

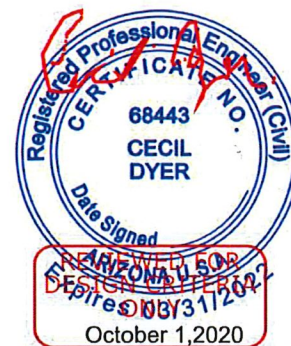
REACTIONS (size) 2=0-5-8, 6= Mechanical
Max Horiz 2=124 (LC 10)
Max Uplift 2=-164 (LC 10), 6=-61 (LC 14)
Max Grav 2=898 (LC 21), 6=449 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/85, 2-7=-170/10, 7-8=-97/18,
3-8=-90/91, 3-4=-13/0, 3-6=-388/231
BOT CHORD 2-6=0/0, 5-6=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat.
II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS
(envelope) exterior zone and C-C Exterior(2E) -2-0-14 to
0-11-2, Interior (1) 0-11-2 to 6-0-0 zone; C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate
DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0;
Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
design.
- 4) This truss has been designed for greater of min roof live
load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on
overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 61 lb uplift at joint
6 and 164 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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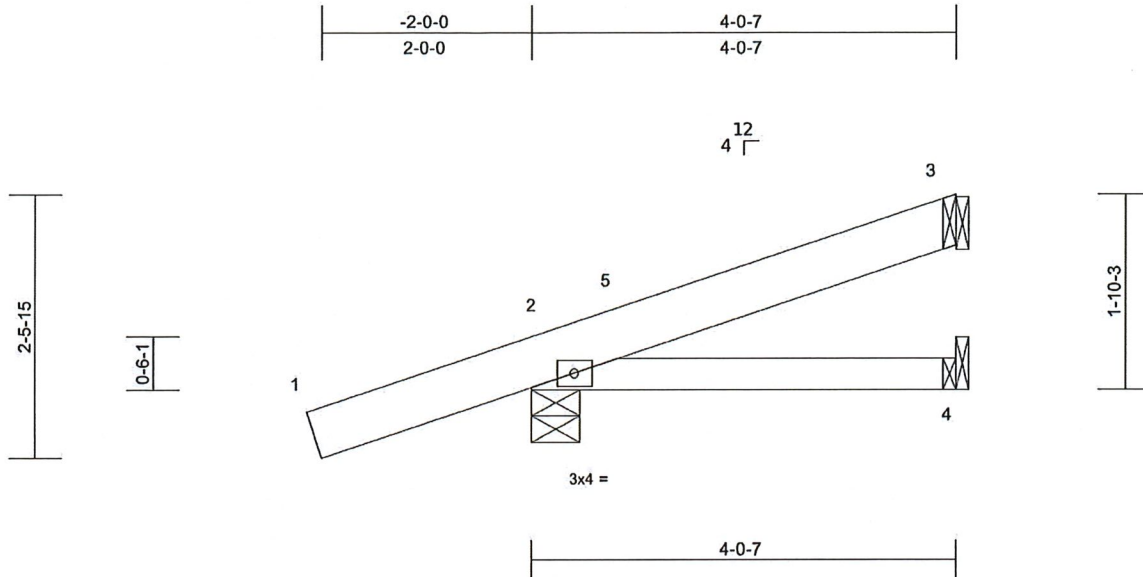
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885839
2001567	J04L	Jack-Open	4	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:49
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Page: 1



Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 16 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=95 (LC 10)
Max Uplift 2=164 (LC 10), 3=51 (LC 14)
Max Grav 2=782 (LC 21), 3=178 (LC 21), 4=75 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/85, 2-5=-141/10, 3-5=-103/43
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 3-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 3 and 164 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



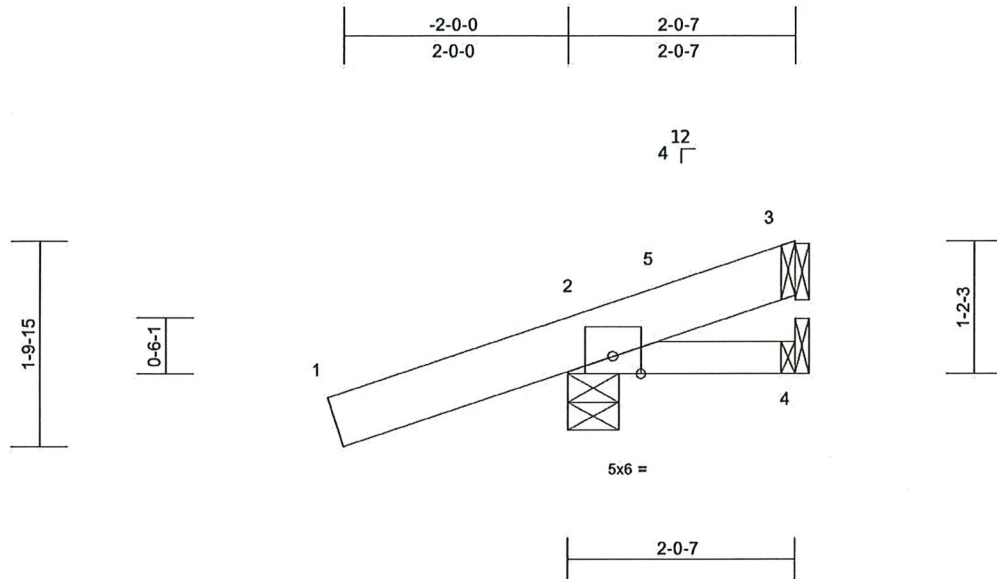
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	YAVAPAI COUNTY 3 BDRM	R63885841
2001567	J05L	Jack-Open	5	1	Job Reference (optional)	

Western Truss & Components, Flagstaff, AZ - 86004,

Run: 8.33 S Jul 22 2020 Print: 8.330 S Jul 22 2020 MiTek Industries, Inc. Wed Sep 30 13:06:49
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Page: 1



Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.00	2-4	>999	240	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	2-4	>999	180	
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0										
										Weight: 10 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=67 (LC 10)
Max Uplift 2=-189 (LC 10), 3=-141 (LC 20)
Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33
BOT CHORD 2-4=0/0

- NOTES**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



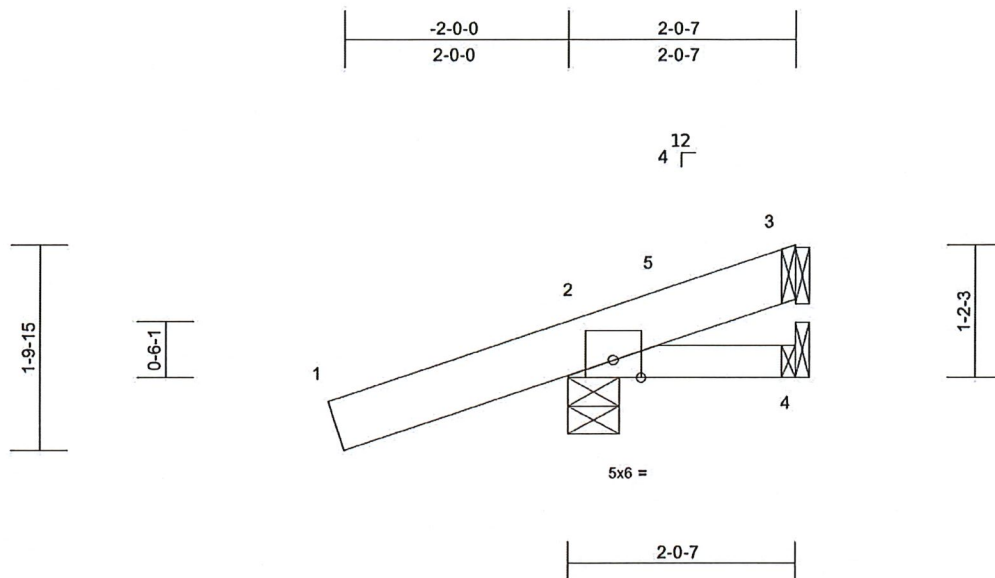
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 2001567	Truss J05R	Truss Type Jack-Open	Qty 5	Ply 1	YAVAPAI COUNTY 3 BDRM Job Reference (optional)	R63885842
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Western Truss & Components, Flagstaff, AZ - 86004,

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Page: 1



Scale = 1:19.7

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.23	0.00	2-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.02	0.00	2-4	>999	180		
TCDL	15.0	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P							
BCDL	10.0									Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=67 (LC 10)
Max Uplift 2=-189 (LC 10), 3=-141 (LC 20)
Max Grav 2=713 (LC 21), 3=40 (LC 10), 4=35 (LC 5)

FORCES

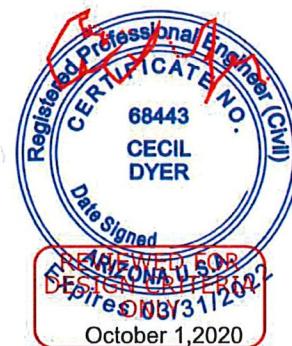
(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/83, 2-5=-144/26, 3-5=-102/33
BOT CHORD 2-4=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; Hip Roof; End Jack Truss; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-14 to 0-11-2, Interior (1) 0-11-2 to 1-11-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 3 and 189 lb uplift at joint 2.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- LOAD CASE(S)** Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

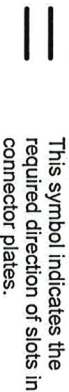
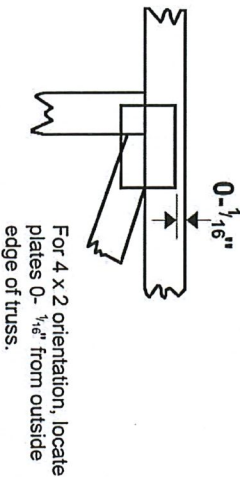
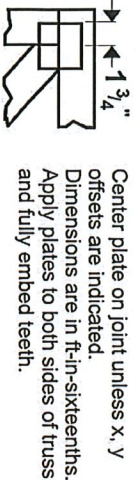
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Symbols

PLATE LOCATION AND ORIENTATION



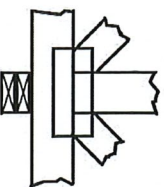
* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



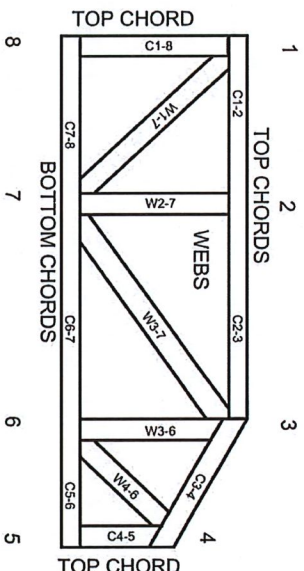
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer or may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

REVIEWED FOR DESIGN CRITERIA ONLY